Patent Claims:

1. Coating formulations (B) which are curable to coatings having a pencil hardness according to ISO 15184 of at least HB, which comprise prepolymers (A) which possess alkoxysilane functions of the general formula (6)

$$-X-CH_2-Si(OR)_{3-x}R'_x \qquad (6)$$

in which

R is hydrogen, alkyl, cycloalkyl or aryl radical having in each case 1 to 6 carbon atoms, the carbon chain being uninterrupted or interrupted by non-adjacent oxygen, sulfur or NR" groups,

R' is alkyl, cycloalkyl, aryl or arylalkyl radical having in each case 1 to 12 carbon atoms, the carbon chain being uninterrupted or interrupted by nonadjacent oxygen, sulfur or NR" groups,

R" is hydrogen, alkyl, cycloalkyl, aryl, aminoalkyl or aspartate ester radical,

X is oxygen, sulfur or a group of the general formula (20)

$$-O-CO-NR"- \qquad (20)$$ and

x is 0 or 1.

2. Coating formulations (B) of claim 1, wherein the group **R** is a methyl or ethyl radical.

3. Coating formulations (B) of claim 1 or 2, wherein the silane-functional prepolymers (A) are prepared using silanes of the general formulae (7) and (8)

$$CH_2=CHW-CO-O-CH_2-Si(OR)_{3-x}R'x \qquad (7),$$

$$\text{propylene oxide-}O-CH_2-Si(OR)_{3-x}R'x \qquad (8),$$

where **W** is a CH_3 group or hydrogen and **R, R'** and **x** have

the definitions described in connection with the general formula (6) according to claim 1.

4. Coating formulations (B) of claim 1 or 2, wherein the silane-functional prepolymers (A) are prepared using silanes (A1) of the general formula (9)

$$OCN-CH_2-Si(OR)_{3-x}R'x \qquad (9),$$

where **R, R'** and **x** have the definitions described in connection with the general formula (6) according to claim 1.

5. Coating formulations (B) of claim 1 to 4, which comprise catalysts (K) for the purpose of achieving rapid curing of the prepolymers (A).

6. Coating formulations (B) of claim 5, wherein the catalysts (K) are selected from tin catalysts and tertiary amines.

7. Coating formulations (B) of claim 1 to 6, which as reactive diluents (R) comprise low molecular mass compounds having a viscosity of not more than 5 Pas at 20°C and possessing reactive alkoxysilyl groups via which they can be incorporated into the nascent three-dimensional network as the coating cures.

8. Coating formulations (B) of claim 7, wherein the reactive diluents (R) are selected from alkyltrimethoxysilanes, alkyltriethoxysilanes, vinyltrimethoxysilane, vinyltriethoxysilane, phenyltrimethoxysilane, phenyltriethoxysilane, tetraethoxysilane, partial hydrolysates of these compounds, and compounds of the general formulae (10) or (11)

$$R''-O-CH_2-Si(OR)_{3-x}R'x \qquad (10),$$

$$R''-O-CO-NH-\ CH_2-Si(OR)_{3-x}R'x \qquad (11),$$

where **R, R', R"** and **x** have the definitions described in connection with the general formula (6) according to claim 1.

9. Coating formulations (B) of claim 1 to 8, which further comprise binders (D) without alkoxysilane functions of the general formula (6).

10. Coating formulations (B) of claim 1 to 9, which are solvent-free.